We claim:

- 1. An article of manufacture comprising a directly refrigerated component or system in which a refrigerating pathway is provided with passive cooling moderation.
- 2. The article of claim 1, with a passive cooling moderator having a moderating live space and at least two cascade points.
- 3. The article of claim 1, with a passive cooling moderator having moderating dead space and at least two cascade points.
- 4. The article of claim 1, which is a test device for rotational viscometric testing of an oleaginous fluid.
- 5. The article of claim 2, which is a test device for rotational viscometric testing of an oleaginous fluid.
- 6. The article of claim 3, which is a test device for rotational viscometric testing of an oleaginous fluid.
 - 7. The article of claim 4, which includes:
 a block made of a thermally conducting material; and
 in said block:
 - a plurality of vertically oriented wells into each of which can be placed a sample sleeve;
 - a plurality of sample sleeves, each of which is placed into one of said wells, and each of which can receive the oleaginous fluid and a rotor;
 - a heater;
 - a temperature-sensing probe; and
 - a refrigerant pathway, in which is positioned

KING-59C 14

the passive cooling moderator.

- 8. The article of claim 5, which includes: a block made of a thermally conducting material; and in said block:
 - a plurality of vertically oriented wells into each of which can be placed a sample sleeve;
 - a plurality of sample sleeves, each of which is placed into one of said wells, and each of which can receive the oleaginous fluid and a rotor;
 - a heater;
 - a temperature-sensing probe; and
 - a refrigerant pathway, in which is positioned the passive cooling moderator.
- 9. The article of claim 6, which includes: a block made of a thermally conducting material; and in said block:
 - a plurality of vertically oriented wells into each of which can be placed a sample sleeve;
 - a plurality of sample sleeves, each of which is placed into one of said wells, and each of which can receive the oleaginous fluid and a rotor;
 - a heater;
 - a temperature-sensing probe; and
 - a refrigerant pathway, in which is positioned

the passive cooling moderator.

- 10. The article of claim 8, wherein said block has a shape of a rectangularly shaped cube; the heater embraces a plurality of heaters inserted into said block horizontally; the temperature-sensing probe embraces at least one such probe that is inserted into said block vertically; and the refrigerant pathway embraces a plurality of refrigerant pathways, in each of which is positioned the passive cooling moderator.
- 11. The article of claim 9, wherein said block has a shape of a rectangularly shaped cube; the heater embraces a plurality of heaters inserted into said block horizontally; the temperature-sensing probe embraces at least one such probe that is inserted into said block vertically; and the refrigerant pathway embraces a plurality of refrigerant pathways, in each of which is positioned the passive cooling moderator.
- 12. The article of claim 7, wherein said each of the sample sleeves is stopped from rotating in the well in which it is placed through a pin and pin-engaging hole or slot arrangement.
- 13. The article of claim 10, wherein said each of the sample sleeves is stopped from rotating in the well in which it is placed through a pin and pin-engaging hole or slot arrangement.
- 14. The article of claim 11, wherein said each of the sample sleeves is stopped from rotating in the well in which it is placed through a pin and pin-engaging hole or slot arrangement.
- 15. In a laboratory test apparatus for testing low temperature viscometric or rheologic properties of a sample,

KING-59C 16

which includes:

a refrigerated, thermally conducting block; and in said block:

- a plurality of vertically oriented wells into each of which can be placed a sample sleeve; and
- a plurality of sample sleeves, each of which is placed into one of said wells, and each of which can receive the oleaginous fluid and a rotor:

the improvement that comprises each of the sample sleeves being stopped from rotating in the well in which it is placed through a pin and pin-engaging hole or slot arrangement.

16. A method for cooling an article of manufacture that is a directly refrigeratable component or system in which a refrigerating pathway is provided with passive cooling moderation, which comprises:

providing said article; and

introducing refrigerant into the refrigerating pathway.

- 17. The method of claim 16, wherein a passive cooling moderator with moderating live space provides said moderation, and an oleaginous fluid is viscometrically/rheologically tested rotationally.
- 18. The method of claim 16, wherein a passive cooling moderator with moderating live space provides said moderation, and an oleaginous fluid is viscometrically/rheologically tested rotationally.

KING-59C